

**ABSTRACT**

The dielectric ceramic material of the present invention is constituted from a solid solution of which dominant crystal phase is a perovskite crystal, and the perovskite crystal consists of complex oxide of at least Ba, Sr, Mg, W and rare earth element, and is preferably used for dielectric resonator since this dielectric ceramic material makes it possible to achieve a high values of  $\epsilon_r$  and Q factor in a high frequency region, and decrease the absolute value of the temperature factor  $\tau_f$  of resonant frequency.

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